

IN THE CLAIMS

Please cancel claims 1-10 and 22-29 as follows

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. An ultrasound-imaging system, comprising:

means for identifying the impulse response of a receive channel of the ultrasound-imaging system;

means for selecting a desired receive channel filter function, wherein the receive channel processes a harmonic echo of ultrasound energy transmitted by the ultrasound-imaging system; and

means for formulating a receive channel filter responsive to the desired filter function and the receive channel impulse response.

12. The system of claim 11, wherein the means for selecting identifies a desired receive channel filter that when applied to ultrasound echoes results in a receive signal that can be modeled with a symmetric function.

13. The system of claim 12, wherein the symmetric function comprises a Gaussian function.

14. The system of claim 11, wherein the means for selecting identifies a desired receive channel filter function with a center frequency at a harmonic multiple of a fundamental frequency of an excitation signal.

15. The system of claim 11, wherein the means for identifying determines the impulse response by measurement.

16. The system of claim 11, wherein the means for identifying determines the impulse response by calculation.

17. The system of claim 11, wherein the means for determining formulates a receive filter as a function of the impulse response of the receive channel and the desired receive channel filter function.

18. The system of claim 17, wherein the formulation comprises calculating an inverse Fourier transform.

19. The system of claim 17, wherein the formulation comprises performing a deconvolution operation.

20. The system of claim 19, wherein the deconvolution operation uses a Weiner filter.

21. The system of claim 19, wherein the deconvolution operation uses polynomial time division.

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)